

## CLAIMS

1. An object lens driving device comprising:  
an object lens for collecting light on an  
5 information recording medium;

a lens holder that holds said object lens;

a base having a support shaft that supports said  
lens holder so that said lens holder is movable in a  
direction in parallel to an optical axis of said object  
10 lens, and rotatable about an axis parallel to said optical  
axis;

a magnet mounted on said lens holder and magnetized  
in a direction substantially perpendicular to said optical  
axis, said magnet having a magnetic pole,

15 a focusing coil mounted on said base, said focusing  
coil having a side facing said magnetic pole of said  
magnet and substantially perpendicular to said support  
shaft;

a tracking coil mounted on said base, said tracking  
20 coil having a side facing said magnetic pole of said  
magnet and substantially parallel to said support shaft;  
and

a yoke including a facing portion having a facing  
surface that faces said magnetic pole of said magnet, and  
25 an extending portion that extends from said facing portion  
in a direction away from said magnetic pole, said side of  
said focusing coil and said side of said tracking coil  
being disposed between said facing surface and said  
magnetic pole of said magnet.

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2. The object lens driving device according to claim 1,  
wherein two said magnets are provided on two positions  
symmetrical to each other with respect to said support  
shaft so that different magnetic poles face each other,  
35 and

wherein two said yokes are provided in opposition to

magnetic poles of said two magnets opposite to said magnetic poles that face each other.

3. The object lens driving device according to claim 1,  
5 wherein said magnet has a hole through which said support shaft is inserted and two magnetic poles formed on positions symmetrical to each other with respect to said hole,

10 wherein two said yokes are provided in opposition to said magnetic poles of said magnet.

4. The object lens driving device according to claim 3, wherein said support shaft is made of a magnetic material, and

15 wherein said hole of said magnet has a asymmetric shape with respect to a center axis of said support shaft in a direction of said magnetizing.

5. The object lens driving device according to claim 2,  
20 wherein said two yokes are so disposed that distances thereto from said supporting shaft are different from each other.

6. The object lens driving device according to claim 2,  
25 further comprising a connecting portion that connects said two yokes, and forms a magnetic path together with said two yokes.

7. The object lens driving device according to claim 6,  
30 wherein said connecting portion is disposed on a position which is not overlapped with said magnet in the direction of said optical axis of said object lens.

8. The object lens driving device according to claim 6,  
35 further comprising a position regulating member extending from said connecting portion to said information recording

medium side of said lens holder, said position regulating member regulating the position of said lens holder in a direction toward said information recording medium.

- 5     9.     The object lens driving device according to claim 8, wherein said position regulating member abuts against an end of said support shaft on said information recording medium side.
- 10    10.    The object lens driving device according to claim 1, wherein said magnet is formed to include a plastic.
- 15    11.    The object lens driving device according to claim 1, wherein said magnet is integrally formed with said lens holder.